

Results for the 14'x200' circular tank with ramp:

Circular tank:

Tank Diameter = 200 ft

Tank Wall thickness = 12 in (actual)

Tank Height = 14 ft

$f_y = 60,000$ psi

$f'_c = 4,000$ psi

Horizontal Steel = #5 rebar Steel shown in table must be placed in each face of the wall		
Bar #	Spacing (in)	Distance from finished floor (ft - in)
1	3	0' 3"
2	18	1' 9"
3	18	3' 3"
4	12	4' 3"
5	12	5' 3"
6	12	6' 3"
7	10	7' 1"
8	10	7' 11"
9	10	8' 9"
10	10	9' 7"
11	10	10' 5"
12	10	11' 3"
13	10	12' 1"
14	10	12' 11"
15	10	13' 9"

Vertical Steel = #4 @ 9" O.C. in each face.

Dowels "L" bars from tank to footing shall be #4 @ 9" O.C. at the interior mat of steel. 26" vertical leg, 10" horizontal leg

For a length of 80 feet, centered on the ramp:

Add an extra #4 rebar between the #5 horizontal rebar for bars #1 to bar #8 in the tank (8 extra bars per steel mat – 16 bars total).


Substitute #5 @ 9" O.C. vertical steel in each face for the #4 @ 9" O.C. vertical steel in each face.

In the tank wall, at the corner of the notch for the ramp add:

4-#6 bars x 13'-10" long @ 6" O.C. vertically in each mat of steel (8 total)

4-#6 bars x 20' long @ 6" O.C. horizontally in each mat of steel (8 total)

4-#6 bars x 6 feet long @ 6" O.C. at a 45 degree angle in each mat of steel (8 total).

 <i>Natural Resources Conservation Services United States Department of Agriculture</i>	<div>_____ County, PA</div> <div>ROUND TANK W/RAMP</div> <div>DETAIL Page 6.32</div>	Designed <u>PA NRCS</u> <u>12/01</u>
		Drawn <u>Hartz</u> <u>2/1/08</u>
		Revisions <u>Pereverzoff</u> <u>1/9/08</u>
		Checked _____
		Approved _____